# DRAFT TECHNICAL DIRECTIVE JUNE 20, 2008

**DEPT. OF TRANSPORTATION**DOCKETS

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Comments: Must be submitted by July 2, 2008 to be considered

This is a draft technical directive to capture the new data elements required by the final rule that was published on May 21, 2008 (73 FR 29426). Since this is a draft, the final technical directive is subject to change. However, the requirements of the final rule can not be changed by the technical directive.

#### DRAFT

# TECHNICAL REPORTING DIRECTIVE RESEARCH AND INNOVATIVE TECHNOLOGY ADMINISTRATION BUREAU OF TRANSPORTATION STATISTICS OFFICE OF AIRLINE INFORMATION

# TITLE 14 CODE OF FEDERAL REGULATIONS PART 234 AMENDED, TECHNICAL DIRECTIVE #17

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EFFECTIVE DATE: October 1, 2008

The Office of Airline Information is issuing this accounting and reporting directive to instruct and clarify the new reporting requirements for gate returns and diverted flights, and to verify that that the carriers may use a Docking Guidance System to capture gate-arrival and gate-departure times. This technical directive replaces Technical Directive #16.

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#### I. Introduction

Part 234 of the Department of Transportation's (Department's) Regulations, "Airline Service Quality Performance Reports," requires certain U.S. air carriers to submit scheduled flight performance data and mishandled-baggage information to the Department, and to provide on-time performance codes to Computer Reservation System (CRS) vendors. These data are used to monitor each carrier's on-time performance and baggage handling, and to provide information to consumers. The scheduled flight performance data are filed electronically. The mishandled-baggage information is submitted as a one-page hardcopy report with the required certification and transmittal letter. The on-time performance codes are filed with the Department, and supplied to CRS vendors in accordance with the procedures set forth in §§ 234.8 and 234.9 and in this Technical Directive.

#### II. Applicability

- 1. Each reporting air carrier providing scheduled domestic passenger operations at a reportable airport will file "On-Time Flight Performance Data," if its share of the industry's total domestic scheduled-service passenger revenues exceed one percent, based on Form 41 data for the 12 months ended June 30. Each year, the Office of Airline Information updates the list of reporting air carriers.
  - 2. For calendar year 2008, the 19 reporting air carriers are:

AirTran

Alaska

American

American Eagle

**Atlantic Southeast** 

Comair

Continental

Delta

ExpressJet Airlines d/b/a Continental Express

**Frontier** 

Hawaiian

**JetBlue** 

Mesa

Northwest

Pinnacle

SkyWest

Southwest

United

**US** Airways

3. The reportable airports with respect to which data must be submitted to the Department are those airports located in the 48 contiguous states enplaning 1 percent or more of the industry's domestic scheduled-service passengers, as reported on the Form 41 Schedule T-100. The Office of Airline Information updated T-100 enplanements for the 12 months ended June 30, 2007. For calendar year 2008, there are 32 reportable airports, which met the threshold of over 6.5 million passengers.

<u>AIRPORT</u>	<b>CODE</b>
Atlanta - Hartsfield – Jackson	ATL
Baltimore/Wash. Int'l Thurgood.Marshall	BWI
Boston - Logan International	BOS
Charlotte - Douglas	CLT

Chicago - Midway	MDW
Chicago - O'Hare	ORD
Cincinnati Greater Cincinnati	CVG
Dallas-Fort Worth International	DFW
Denver - International	DEN
Detroit - Metro Wayne County	DTW
Fort Lauderdale Hollywood International	FLL
Houston - George Bush International	IAH
Las Vegas - McCarran International	LAS
Los Angeles International	LAX
Miami International	MIA
Minneapolis-St. Paul International	MSP
Newark Liberty International	<b>EWR</b>
New York - JFK International	JFK
New York - LaGuardia	LGA
Oakland International	MCO
Orlando International	OAK
Philadelphia International	PHL
Phoenix - Sky Harbor International	PHX
Portland International	PDX
Salt Lake City International	SLC
St. Louis Lambert International	STL
San Diego Intl. Lindbergh Field	SAN
San Francisco International	SFO
Seattle-Tacoma International	SEA
Tampa International	TPA
Washington - Reagan National	DCA
Washington - Dulles International	IAD

- 4. The reportable flight operations for which data must be submitted to the Department are all scheduled nonstop domestic passenger operations by a reporting air carrier to or from any reportable airport.
- 5. In addition to the required data for each reportable flight which must be submitted to the Department, a reporting carrier may also submit the required data for every other nonstop domestic passenger flight it holds out to the public pursuant to a published schedule. In addition, any carrier not included in paragraph II. 2. of this Technical Directive may voluntarily become a reporting carrier and submit Form 234 for its reportable flights for every nonstop domestic passenger flight it holds out to the public pursuant to a published schedule, provided that the BTS Assistant Director, Airline Information (AI), is advised beforehand. Such voluntary data must be submitted for a minimum of 12 consecutive months. The voluntary submission must meet the exact reporting specifications set forth in this directive. Volunteering carriers that wish to discontinue reporting after one year must advise the Assistant Director, AI, a minimum of 30 days before discontinuance, so that the necessary changes can be made to the Department's data programs.

6. Changes in reporting air carriers and reportable airports will be made as necessary by the Assistant Director, AI, under authority delegated in § 385.19 of the Department's regulations.

#### III. Definitions

Definitions used in this directive include those in § 234.2 as well as the following:

- 1. 'CRS' means a 'system' as defined in 14 CFR § 255.3 of the Department's regulations,
- 2. 'Domestic operation' means a flight operation within or between the 50 states of the United States, the District of Columbia, the Commonwealth of Puerto Rico and the U.S. Virgin Islands, and the territories and possessions of the United States. Transborder operations are not included.
- 3. 'Flight' for purposes of the data to be reported to the Department, means one or more scheduled nonstop operations identified by a specific flight number in conjunction with a specific origin-destination city-pair designation; e.g., flight 102 DCA-ATL-MIA includes two separate flights (DCA-ATL, ATL-MIA).
- 4. 'Flight' for the purposes of CRS disclosure, means nonstop operations as defined above, plus scheduled one-stop and multi-stop operations identified by a specific flight number in conjunction with a specific origin-destination city-pair designation; e.g., flight 102 DCA-ATL-MIA includes three separate flights for purposes of CRS disclosure (DCA-ATL, ATL-MIA, DCA-MIA).
- 5. 'Flight operation' means a specific operation of a given flight on a given day; e.g., if flight 102 DCA-ATL operated daily during the month of July, then it had 31 flight operations in July.
- 6. 'Gate arrival time' is the instance when the pilot sets the aircraft parking brake after arriving at the airport gate or passenger unloading area. If the parking brake is not set, record the time for the opening of the passenger door. Also, carriers using a Docking Guidance System may record the official "gate-arrival time" when the aircraft is stopped at the appropriate parking mark for at least two seconds.
- 7. 'Gate departure time' is the instance when the pilot releases the aircraft parking brake after passengers have loaded and aircraft doors have been closed. In cases where the flight returned to the departure gate and departed a second time, report the last gate departure time. If passengers were boarded without the parking brake being set, record the time that the passenger door was closed. Also, carriers using a Docking Guidance System may record the official "gate-departure time" when the aircraft moves more than 1 meter from the appropriate parking mark within 15 seconds. Fifteen seconds is then subtracted from the recorded time to obtain the appropriate out time.

# IV. Data Requirements for DOT On-Time Disclosure Reports

- 1. Each reporting air carrier will file Form 234 for each calendar month. Each report will include all nonstop domestic passenger scheduled flight operations by the reporting carrier that serve one or more of the reportable airports.
- 2. For each nonstop flight operation serving a reportable airport, the following data elements will be reported:
- A. Carrier (Two Letter Code)
- B. Flight Number
- C. Departure Airport (Three Letter Code)
- D. Arrival Airport (Three Letter Code)
- E. Date of Flight Operation (Year/Month/Day)
- F. Day of Week of this Flight Operation (Monday = 1...Sunday = 7)
- G. Scheduled Departure Time as Shown in the Official Airline Guide (OAG) Pursuant to \$234.4(f)
- H. Scheduled Departure Time as Shown in CRS Selected by the Carrier as its Data Source Pursuant to § 234.4(f)
- I. Gate Departure Time (Actual) in Local Time (For gate-returns, record last time away from gate)
- J. Scheduled Arrival Time as Shown in the OAG
- K. Scheduled Arrival Time as Shown in CRS
- L. Gate Arrival Time (Actual) in Local Time (Complete this field if a diverted flight arrives at its scheduled destination airport)
- M. Difference in Minutes Between OAG and Scheduled Departure Time: G minus H
- N. Difference in Minutes Between OAG and Scheduled Arrival Time: J minus K
- O. Scheduled Elapsed Time Per CRS in Minutes: K Minus H
- P. Actual Gate to Gate Time in Minutes: L Minus I (Complete this field if a diverted flight arrives at its scheduled destination airport)
- Q. Departure Delay (Difference in Minutes Between Actual Departure Time and CRS Scheduled Departure Time): I Minus H
- R. Arrival Delay (Difference in Minutes Between Actual Arrival Time and CRS Scheduled Arrival Time): L Minus K (Complete this field if a diverted flight arrives at its scheduled destination airport)
- S. Elapsed Time Difference (Difference in Minutes Between Actual Elapsed Time and CRS Scheduled Elapsed Time): P Minus O (Complete this field if a diverted flight arrives at its scheduled destination airport)
- T. Wheels-Off Time (Actual) in Local Time
- U. Wheels-On Time (Actual) in Local Time (Complete this field if a diverted flight arrives at its scheduled destination airport)
- V. Aircraft Tail Number
- W. Cancellation Code

- X. Minutes late for delay code E
- Y. Minutes late for delay code F
- Z. Minutes late for delay code G
- AA. Minutes late for delay code H
- AB. Minutes late for delay code I
- AC. First Gate Departure Time at Origin Airport (For Gate returns and canceled flights)
- AD. Total Ground Time Away from Gate (Report only flights that experience gate returns at the origin airport, including cancelled flights actual minutes. Do not include the time from last gate-departure to wheels-offs)
- AE. Longest Time Away from Gate for Gate Return or Cancelled Flight (Do not include the time from last gate-departure to wheels-offs)
- AF. Number of landings at Diverted Airports (Maximum of 5 diverted landings)
- AG. Three letter Code of Airport where Diverted Flight Landed
- AH. Wheels-on Time at Diverted Airport
- AI. Total Time Away from Gate at Diverted Airport
- AJ. Longest Time Away from Gate at Diverted Airport
- AK. Wheels-off Time at Diverted Airport AG Three letter Code of Airport where Diverted Flight Landed
- AL. Three letter Code of Airport where Diverted Flight Landed
- AM. Wheels-on Time at Diverted Airport
- AN. Total Time Away from Gate at Diverted Airport
- AO. Longest Time Away from Gate at Diverted Airport
- AP. Wheels-off Time at Diverted Airport AG Three letter Code of Airport where Diverted Flight Landed
- AQ. Three letter Code of Airport where Diverted Flight Landed
- AR. Wheels-on Time at Diverted Airport
- AS. Total Time Away from Gate at Diverted Airport
- AT. Longest Time Away from Gate at Diverted Airport
- AU. Wheels-off Time at Diverted Airport
- AV. Three letter Code of Airport where Diverted Flight Landed
- AW. Wheels-on Time at Diverted Airport
- AX. Total Time Away from Gate at Diverted Airport
- AY. Longest Time Away from Gate at Diverted Airport
- AZ. Wheels-off Time at Diverted Airport
- BA. Three letter Code of Airport where Diverted Flight Landed
- BB. Wheels-on Time at Diverted Airport
- BC. Total Time Away from Gate at Diverted Airport
- BD. Longest Time Away from Gate at Diverted Airport
- BE. Wheels-off Time at Diverted Airport

#### **CANCELLATION CODES**

**DELAY CODES** 

A-Carrier Caused

E-Carrier Caused

**B-Weather** 

F-Weather

C-National Aviation System D-Security

G-National Aviation System H-Security I-Late Arriving Aircraft

- 3. The data format for the elements listed in paragraph 2 above will comply exactly with either one of two flight record field specifications set forth in section V. Report Format and Instructions for On-Time Disclosure Reports and Mishandled-Baggage Reports.
- 4. All scheduled and actual arrival and departure times will be reported in local time using a 24 hour clock; e.g. 3:15 p.m. will be 15:15, midnight is 24:00, and one minute after midnight is 00:01. In using local time, the reporting carrier must adjust for time zone differences in computing data elements O, P, and S.
  - 5. Times should be reported in whole minutes; e.g. two hours equals 120 minutes.
- 6. Flight operations that begin and end in different months will be reported in the month in which they begin.
  - 7. Extra-section, nonscheduled and charter flights will not be reported.
  - 8. Gate Returns are reported by:

entering the time of the last gate departure in field I Gate Departure Time, entering the appropriate minutes for AD Total Time Away from Gate, and entering the appropriate minutes for AE Longest Time Away from Gate.

9. Canceled Flight information will be incorporated in the appropriate fields by:

entering, in the data field I (Gate Departure Time),

entering, in data field L (Gate Arrival Time),

entering,, in data field T (Wheels-Off Time),

and entering ,, in data field U (Wheels-On Time).

The aircraft tail number must be reported for canceled flights; however, when a flight has been canceled before a specific aircraft has been assigned to that flight, you would enter, in field V (Aircraft Tail Number).

9(a). For flights that are cancelled after gate departure but before wheels-off time:

enter,, in the data field I (Gate Departure Time),

enter " in data field L (Gate Arrival Time),
enter " in data field T (Wheels-Off Time),
enter " in data field U (Wheels-On Time),
enter the appropriate time in field AC First Gate Departure Time at Origin Airport,
enter the appropriate minutes for AD Total Time Away from Gate, and
enter the appropriate minutes for AE Longest Time Away from Gate,

9(b) For flights that are cancelled after wheels-off time (fly returns), record the canceled flight operations by:

entering,, in the data field I (Gate Departure Time),

entering,, in data field L (Gate Arrival Time),

entering,, in data field T (Wheels-Off Time),

entering,, in data field U (Wheels-On Time),

entering the appropriate time in field AC First Gate Departure Time at Origin Airport,

entering the appropriate minutes in field AD Total Time Away from Gate (time on tarmac between gate departure and wheels-off),

entering the appropriate minutes in Field AE Longest Time Away from Gate (longest single time on tarmac between gate departure and wheels-off)

entering a 9 in field AF Number of Diverted Landings (the number 9 designates an air return cancelled flight),

entering the three letter code of the Origin Airport in field AG Three Letter Code of Diverted Airport,

entering the wheels-on time in field AH Wheels-on Time at Diverted Airport,

entering the appropriate minutes in field AI Total Time Away from Gate at Diverted Airport,

entering the appropriate minutes in field AJ Longest Time Away from Gate at Diverted Airport.

10. Information on flights which operated but were diverted to an alternate destination will be incorporated in the appropriate flight record for the diverted flight operation by:

entering the three letter code of the diverted airport in field AG Three Letter Code of Diverted Airport,

entering the wheels-on time in field AH Wheels-on Time at Diverted Airport,

entering the appropriate minutes in field AI Total Time Away from Gate at Diverted Airport,

entering the appropriate minutes in field AJ Longest Time Away from Gate at Diverted Airport, and

entering the wheels-off time at Diverted Airport, AK Wheels-off Time at Diverted,

entering the appropriate data in fields L Gate Arrival Time, P Actual Gate-to-Gate Time, R Arrival Delay Time, S Elapsed Time Difference and U Wheels-On Time when a diverted flight reaches its scheduled destination.

- 11. All fields for which data are unavailable will be entered by using ,,
- 12. Any data field resulting from calculations involving such ,, will also use ,,
- 13. For data fields Q, R, and S use positive numbers to indicate time in minutes for departure/arrival/elapsed time delays. Use negative numbers to indicate time in minutes for departures, arrivals ahead of schedule and elapsed times less than scheduled.
  - 14 Fields M, N, Q, R, and S have positive and negative values:
- a. When reporting in the **ASCII** comma delimited format, as described in the specifications set forth in section **V.3. Email Attachment Reporting Requirements**, these fields will indicate this attribute as the actual numeric value, preceded by a "-" negative sign when the number is negative.
  - 15 Reporting numeric data:
- a. When reporting in the **ASCII** comma delimited format, leading zeros are NOT necessary for "Minutes" fields (M, N, O, P, Q, R, S, X, Y, Z, AA, AB, AD, AE, AI, AJ, AN, AO, AS, AT, AX, AY BC, and BD).
- b. Leading zeros will be used for "Time" fields (G, H, I, J, K, L, T, U, AC, AH, AK, AM, AP, AR, AU, AW, AZ, BB and BE). These fields use a 24 hour clock and will use a leading zero to show 0800 for 8:00 AM (2000 for 8:00 PM.)

# V. Report Format and Instructions for On-Time Disclosure Reports and Mishandled-Baggage Reports

#### 1. Transmittal Letter.

An electronic version of the transmittal letter will accompany each carrier's data submission. The transmittal letter must identify the carrier and month and year for which the data are being submitted, and contain the following information:

- a. A certification statement identifying an appropriate official of the reporting carrier. The certification statement will read:
- I, (Name) and (Title), of the above-named air carrier, certify that the e-mail attachments having the BTS Form 234 "On-Time Flight Performance Report" and the Mishandled-Baggage Report are to the best of my knowledge and belief, true, correct, and complete reports for the period stated.

Date:

Signature:

Name (Please Type or Print):

- b. The name(s) and telephone number(s) of the carrier's staff who can be contacted to resolve problems regarding both carrier data and technical matters.
- c. For control purposes, a statement indicating the total number of flight operations and unique flight numbers in the Form 234 submission.
- d. For the initial submission, a description of the data submitted, specifying whether the email attachment includes data for only reportable airports or for all domestic scheduled nonstop flight operations.
- e. For the initial submission and for subsequent changes, a statement identifying the source of the scheduled arrival and departure times used in the report: (1) Official Airline Guide in effect on (date) and (2) the name of the computer reservation system used for reporting purposes, pursuant to § 234.4(f).
- f. When reporting by e-mail, the transmittal letter may be submitted as an email attachment, so long as the Reporting Carrier's Certifying Official's contact information is included.

# 2. Mishandled-Baggage Report.

The reporting carrier's Mishandled Baggage Report shall be made into an electronic document separate from the transmittal letter.

This report will show the mishandled-baggage information for the reporting month and include the following items:

Name of Carrier Month and Year of the Data included in the Report Number of Domestic Scheduled Passengers Enplaned Number of Mishandled-Baggage Reports Filed with Carrier

# 3. E-mail Attachment Reporting Requirements

- a. Form 234, "On-Time Flight Performance Report," shall be filed in the **ASCII** comma delimited format by e-mail attachment. The data will be reported without summarization, with a separate flight record for each reportable operation. Flight records will be sequenced by date of flight (field E) within market (fields C and D), within flight number (field B).
  - b. The format for ASCII submissions will be:

#### (1) Comma Delimited:

Within each record, fields are to be separated with commas.

This is NOT a comma-separated-values (.csv) format. It does NOT have formulas, quotes around text fields, or other special embedded codes such as would be made by Microsoft Excel.

Note: When a flight has been canceled before a specific aircraft has been assigned to that flight, you would leave field V (Aircraft Tail Number) blank, resulting in adjacent commas (e.g., ).

# (2) File Naming Convention: (File Name is Case Sensitive)

The file will be named: CCyyyymm.DD

Where uppercase CC is the two character IATA Carrier Code.

Where yyyy is the numeric century and year of the data reported.

Where mm is the numeric month of the data reported.

The uppercase ".DD" is the literal file extension required for system identification at the Office of Airline Information.

Example: AA200301.DD = American Airlines, 2003, January

# (3) Field Specifications for Reporting on Diskette or by Email Attachment (ASCII)

Field	Description	Туре	Length	Comments
	Carrier code	Character	2	Two letter IATA code
В	Flight number	Character	Max length of 4	A
C	Origin airport code	Character	3	Three letter Airport code

D	Destination airport code	Character	3	Three letter Airport code
Е	Date of flight operation	Num	8	Format ccyymmdd
F	Day of the week of flight operation	Num	1	Mon = 1, Sun = 7
G	Scheduled departure time as shown in	Num	4	Local time 24 hour clock
	Official Airline Guide(OAG)			
Н	Scheduled departure time as shown in	Num	4	Local time 24 hour clock
	CRS(selected by the Carrier)	<del> </del>	<del> -</del>	
I	Gate departure time (actual)	Num	4	Local time 24 hour clock
J	Scheduled arrival time per OAG	Num	4	Local time 24 hour clock
K	Scheduled arrival time per CRS	Num	4	Local time 24 hour clock
L	Gate arrival time (actual)	Num	4	Local time 24 hour clock
M	Difference between OAG and CRS	Num	Max length of 4	In minutes (2 hours=120 min)
	scheduled departure times	<u> </u>		G minus H
N	Difference between OAG and CRS scheduled arrival times	Num	Max length of 4	In minutes – J minus K
0	Scheduled elapsed time per CRS	Num	Max length of 4	In minutes – K minus H
P	Actual gate-to-gate time	Num	Max length of 4	In minutes – L minus I
Q	Departure delay time (actual minutes CRS)	Num	Max length of 4	In minutes – I minus H
R	Arrival delay time (actual minutes CRS)	Num	Max length of 4	In minutes – L minus K
S	Elapsed time difference (actual minutes CRS)	Num	Max length of 4	In minutes – P minus O
T	Wheels-off time (actual)	Num	4	Local time 24 hour clock
U	Wheels-on time (actual)	Num	4	Local time 24 hour clock
V	Aircraft tail number	Character	6	
W	Cancellation code	Character	1	Values are A, B, C, D
X	Minutes late for Delay Code E – Carrier Caused	Num	Max length of 4	In minutes
Y	Minutes late for Delay Code F – Weather	Num	Max length of 4	In minutes
Z	Minutes late for Delay Code G – National Aviation System (NAS)	Num	Max length of 4	In minutes
AA	Minutes late for Delay Code H – Security	Num	Max length of 4	In minutes
AB	Minutes late for Delay Code I – Late Arriving Flight (Initial)	Num	Max length of 4	In minutes

AC	First gate departure time (actual)	Num	4	Local time 24 hour clock
AD	Total ground time away from gate	Num	Max length of 4	In minutes
AE	Longest ground time away from gate	Num	Max length of 4	In minutes
AF	Number of landings at diverted airports	Num	1	l to 5 for diversions, 9 designates a fly return canceled flight
AG	Diverted airport code	Character	3	Three letter Airport code
AH	Wheels-on time at diverted airport	Num	4	Local time 24 hour clock
ΑI	Total ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AJ	Longest ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AK	Wheels-off time (actual) at diverted airport	Num	4	Local time 24 hour clock
AL	Diverted airport code	Character	3	Three letter Airport code
AM	Wheels-on time at diverted airport	Num	4	Local time 24 hour clock
AN	Total ground time away from gate at	Num	Max length of 4	In minutes

	diverted airport			
AO	Longest ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AP	Wheels-off time (actual) at diverted airport	Num	4	Local time 24 hour clock
AQ	Diverted airport code	Character	3	Three letter Airport code
AR	Wheels-on time at diverted airport	Num	4	Local time 24 hour clock
AS	Total ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AT	Longest ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AU	Wheels-off time (actual) at diverted airport	Num	4	Local time 24 hour clock
AV	Diverted airport code	Character	3	Three letter Airport code
AW	Wheels-on time at diverted airport	Num	4	Local time 24 hour clock
AX	Total ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AY	Longest ground time away from gate at diverted airport	Num	Max length of 4	In minutes
AZ	Wheels-off time (actual) at diverted airport	Num	4	Local time 24 hour clock
BA	Diverted airport code	Character	3	Three letter Airport code
BB	Wheels-on time at diverted airport	Num	4	Local time 24 hour clock
ВС	Total ground time away from gate at diverted airport	Num	Max length of 4	In minutes
BD	Longest ground time away from gate at diverted airport	Num	Max length of 4	In minutes
BE	Wheels-off time (actual) at diverted airport	Num	4	Local time 24 hour clock

#### **CANCELLATION CODES:**

A – Air Carrier

B – Weather

C – National Aviation System (NAS)

D – Security

#### **DELAY CODES:**

E – Carrier Caused

F – Weather

G – National Aviation System (NAS)

H – Security

I – Late Arriving Flight (Initial)

# VI. Submission of Reports

- 1. Carriers shall send electronic copies of their reports to: ontime.support@dot.gov
- 2. Additional options for correspondence include:

**Address**: The address for the Form 234 data submission and the Mishandled-Baggage Report is:

U.S. Department of Transportation Research and Innovative Technology Administration Bureau of Transportation Statistics Office of Airline Information, RTS-42, E34-433 1200 New Jersey Avenue, SE Washington, DC 20590-0001

Fax: The fax number for the Office of Airline Information is (202) 366-3383.

For assistance, carriers should contact Mr. Bernie Stankus at 202-366-4387.

The Air Travel Consumer Report is a product of the Office of Secretary's Aviation Consumer Protection Division. Question concerning this publication should be directed to:

Norman A. Strickman Director, Aviation Consumer Protection Division Office of Aviation Enforcement and Proceedings Office of the General Counsel U.S. Department of Transportation 202-366-5960

- 3. Due Dates. The due date for Form 234 and the Mishandled-Baggage Report is 15 days after the applicable reporting month, i.e., data for the month of March are due by April 15. If the 15th day falls on a weekend or Federal holiday, the due date will be the next workday.
- 4. Enforcement. Penalties for late filing or noncompliance with these reporting requirements will be assessed in accordance with 49 U.S.C. 46310.
- 5. Missing or Incomplete Records. Any carrier subject to this directive which does not file the required data for any period, or files incomplete data, will submit a sworn statement of an officer that the carrier was unable to provide the data because it did not have and could not obtain the necessary records. That statement, as well as the veracity of the information and the data submitted, will be subject to 18 U.S.C. 1001, regarding criminal penalties for false statements made to a government agency. The statement will be filed with the Director, Office of Airline Information, at the address in paragraph 1 above, three days prior to the due date.
- 6. Special Circumstances. Requests for waivers, exceptions, extensions, or other considerations will be submitted in writing to the Director, Office of Airline Information, at the address in paragraph 1 above.

## VII. Records Retention

Form 234 and the Mishandled-Baggage Report are statistical reports. The record retention requirements for statistical reports are governed by Part 249, "Preservation of Air Carrier Records" of the Department's Regulations. Specifically, § 249.20-6 requires the information supporting a statistical report to be maintained by the carrier for three years.

## VIII. Data Requirements and Instructions for CRS Disclosure

As required by § 234.8 of the Department's Regulations, each reporting carrier providing data pursuant to this directive will calculate an on-time performance code for each reportable (nonstop) flight included in its monthly data submission to the Department, and for each one-stop or multi-stop flight that includes a reportable flight segment as specified below. That calculation will be carried out as follows:

- 1. Each reporting carrier will compute the arrival delay in minutes for each reported (nonstop) flight operation in its monthly data submission by subtracting the scheduled arrival time for each flight operation per its CRS records (data field K) from the actual gate arrival time (data field L).
- 2. Using the data derived from the computation in paragraph 1 above, each reporting carrier will calculate, for each nonstop flight in its data submission, the percent of that flight's operations that were on-time during the month (i.e., arrived sooner than the CRS scheduled arrival time + 15 minutes). The calculation will be performed by dividing the number of reported operations of each flight that arrived less than 15 minutes after the scheduled arrival time, by the total number of reported operations of that flight during the month.
- 3. Each reporting carrier will convert the percentage derived from the computations in paragraph 2 into a one digit CRS on-time performance code for each reportable flight operated during the month as follows:

Percent of operations of the flights that were	CRS on-time performance
on-time	code
90 to 100	9
80 to 89.9	8
70 to 79.9	7
60 to 69.9	6
50 to 59.9	5
40 to 49.9	4
30 to 39.9	3
20 to 29.9	2
10 to 19.9	1
0 to 9.9	0

- 4. New flights as defined in § 234.2 for which no on-time percentage is available yet will be designated with the CRS data code "N" (no record).
- 5. Each reporting carrier will include the appropriate one digit CRS code (0 through 9 or "N") as a standard data element in each flight schedule it provides the OAG and/or any CRS vendor(s), for every reportable flight.
- 6. In addition, using the procedure illustrated in this paragraph, each reporting carrier will include the appropriate one digit CRS code (0 through 9 or "N") as a standard data element

in each flight schedule it provides the OAG and/or any CRS vendor(s), for every one-stop or multi-stop flight, or portion thereof, that includes a reportable flight as a final flight segment.

#### Examples:

If flight 102 operates EWR-DCA-ATL-MIA, provide the on-time performance codes for:

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102 EWR-DCA (calculated per paragraphs 1-4 above)
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102 DCA-ATL (calculated per paragraphs 1-4 above)

102 ATL-MIA (calculated per paragraphs 1-4 above)

102 EWR-ATL: assign 102 DCA-ATL performance code

102 EWR-MIA: assign 102 ATL-MIA performance code

102 DCA-MIA: assign 102 ATL-MIA performance code

If flight 103 operates BUF-SYR-EWR-DCA, provide on-time performance codes for:

103 SYR-EWR (calculated per paragraphs 1-4 above)

103 EWR-DCA (calculated per paragraphs 1-4 above)

103 BUF-EWR: assign 103 SYR-EWR performance code

103 BUF-DCA: assign 103 EWR-DCA performance code

103 SYR-DCA: assign 103 EWR-DCA performance code

If flight 104 operates MKE-DTW-CMH-LEX, provide on-time performance codes for:

104 MKE-DTW (calculated per paragraphs 1-4 above)

104 DTW-CMH (calculated per paragraphs 1-4 above)

104 MKE-CMH: assign 104 DTW-CMH performance code

- 7. A flight that is not a new flight will be assigned the on-time performance code calculated for the flight that it replaces, even if the two flights do not have the same flight number.
- 8. No later than the 15th day of each month, each reporting carrier will deliver or arrange to have delivered to its CRS vendor(s), updated on-time performance codes. If a carrier relies on a third party to supply such flight information to CRS vendor(s), the carrier will provide their flight information, including the appropriate CRS on-time performance codes, at the same time that the carrier submits its monthly flight data to the Department.
- 9. The calculation and assignment of on-time performance codes for flights other than reportable flights, as permitted in § 234.10, will follow the procedures set forth above. Carriers are required to perform those calculations only for reportable flights, and for one-stop or multistop flights, or portions thereof, that include a reportable flight as a final flight segment, but may do so for all flights at their option.

10. No carrier may provide on-time performance codes to the OAG or to any CRS vendor(s) for any flight during any month unless the carrier also provides the required flight data for the month to the Department as specified in Part 234 and in this Technical Directive.

# IX. Reporting the Causes of Cancelled and Delayed Flights

- 1. There are four categories for cancellation:
  - A. Air Carrier
  - B. Extreme Weather
  - C. National Aviation System
  - D. Security
- 2. There are five categories for delayed flights:
  - E. Air Carrier
  - F. Extreme Weather
  - G. National Aviation System
  - H. Security
  - I. Late Arriving Aircraft
- 3. Causal data must be reported for cancelled and late arriving flights (flights that arrive at the destination airport 15 minutes or more after the scheduled arrival time. No causal data are required for flights that are considered on-time or for diverted flights.
- 4. For all late flights, you account for the cause and length of departure delays of 6 minutes or longer (with the exception of No. 5 below). Carriers may choose to report only the predominant departure delay but they must do it on a consistent basis. Also, carriers that report predominant cause of delay must abide by No. 8 below.
- 5. When there are multiple causes of delays that start at the same time, report the cause of delay having the longest duration.
- 6. Reported delay minutes must equal the arrival delay. When the arrival delay is greater than the departure delay, the difference is attributed to NAS.
- 7. When departure delay is greater than the arrival delay, report the arrival delay minutes. If there were multiple delay causes, prorate the time-savings to each cause of delay. Report in whole minutes and do not report a negative number for the length of delay.
- 8. Causal delay minutes assigned to late arriving aircraft can be equal to or less than but not more than the delay time of the previous flight operated with the same aircraft with one exception, i.e. a carrier swaps aircraft between routes to lessen delays.
- (At 2 p.m., aircraft N0011 arrived on time and its next flight segment is scheduled to depart at 5 p.m. Aircraft N0012 was scheduled to arrive at 1 p.m. and is still en-route. The next scheduled flight with this aircraft is at 2:10 p.m. The air carrier swapped aircraft and the 2:10 p.m. flight departed at 2:30 p.m. The carrier reported a 20 minute delay for late arriving aircraft

even though the previous flight with this aircraft arrived on-time.) The flight scheduled to depart at 2:10 p.m. would have departed even later if the air carrier had not swapped aircraft.

#### CAUSAL DELAYS AND CANCELLATIONS

The primary purpose for collecting causal data is to categorize delays and cancellations so that system problems can be identified and the appropriate parties can take corrective action.

#### AIR CARRIER DELAYS OR CANCELLATIONS

Below is a list of examples of causes for delays and cancellations that we believe are within the control of the air carrier. This list should be used as a guide for the type of occurrences that should be reported as an air carrier delay and/or cancellation. It should not be considered a complete list, and we welcome comments on additions or deletions.

#### AIR CARRIER

Aircraft cleaning

Aircraft damage (except bird strikes, lightning/hail damage)

Airport curfew

Awaiting the arrival of connecting passengers or crew

Awaiting alcohol test

Awaiting gate space

Baggage loading

Cabin servicing

Cargo loading

Catering

Computer outage - carrier equipment

Crew legality (pilot or attendant rest)

Damage by hazardous goods

**Engineering Inspection** 

Public Health, etc.

Flight paperwork

**Fueling** 

Gate congestion

Government forms not properly completed - INS, FAA, Agriculture

Ground equipment out of service

Hot brakes restriction

Last minute passenger

Late mail from Post Office

Late crew

Lavatory servicing

Maintenance

Medical emergency

Out of service aircraft

Oversales

Positive passenger baggage match

Passenger services

Potable water servicing

Pre-flight check

Ramp congestion - blocked by another aircraft under carrier's control

Ramp service

Removal of unruly passenger

Revised weight sheet

Shortage of ramp equipment

Slow boarding or seating

Snow removal (when it is a carrier ramp service function)

Stowing carry-on baggage

Weight and balance delays

#### WEATHER

Below is a list of examples of causes for delays and cancellations that we believe are the result of weather. This list should be used as a guide for the type of occurrences that should be reported as an air carrier delay and/or cancellation. It should not be considered a complete list, and we welcome comments on additions or deletions.

#### WEATHER

Below minimum conditions

Clear ice inspection

Deicing aircraft

Earthquake

Extreme high or low temperatures

Hail Damage

Holding at gate for enroute weather

Hurricane

Lightning damage

Pre-planned cancellations that result from predicted weather

**Snow Storm** 

Thunder Storm

Tornado

#### NATIONAL AVIATION SYSTEM (NAS)

Below is a list of examples of causes for delays and cancellations that we believe are in the control of the FAA, airport operators or State/local officials. This list should be used as a guide for the type of occurrences that should be reported as an air carrier delay and/or cancellation. It should not be considered a complete list; and we welcome comments on additions or deletions.

#### **NATIONAL AVIATION SYSTEM (NAS)**

Airport conditions Airport construction Air Traffic Control (ATC) Awaiting ATC clearance while still at gate Air Traffic Quota Flow Program - ATC Closed Runways Computer failure - ATC equipment Equipment Outage - ATC Gate hold - ATC Ground delay program - ATC Flow control program - FAA Other disabled aircraft blocking runway Ramp congestion - blocked by aircraft not under carrier's control Ramp Traffic - Air Traffic Control Restricted aircraft movement on runways Volume Delays

#### **SECURITY**

Below is a list of examples of causes for delays and cancellations that we believe were the result of security measures outside the control of air carriers. This list should be used as a guide for the type of occurrences that should be reported as an air carrier delay and/or cancellation. It should not be considered a complete list; and we welcome comments on additions or deletions.

#### **SECURITY**

Bomb threat
Inoperative screening equipment - TSA
Evacuation of terminal or concourse resulting from security breech
Re-boarding aircraft because of security breech
Sky Marshal caused delay
Weapon confiscation
Lines at screening area that exceed standard time (see X. Security Screening below)

Note: Delays caused by routine passenger screening should not be assigned to "Security" when the wait at screening areas are less than 30 minutes. Also, air carriers should ensure that delays and cancellations assigned to "Security" were not attributable to their own actions or caused by their own employees who fail to follow security procedures.

#### LATE ARRIVING AIRCRAFT

Late Arriving Aircraft means a previous flight with the same aircraft arrived late which caused

the present flight to depart late. The minutes assigned to Late Arriving Aircraft can never be more than the delay time of the previous flight. When assigning a causal code for Late Arriving Aircraft, the carrier must consider the scheduled time between flights and the carrier's allotted turn time. (Exception from the same aircraft rule is allowed when carrier substitutes an aircraft for a delayed aircraft in order to decrease the delay of upcoming flights).

# Guidance for Calculating Delay Minutes Attributed to a Late Arriving Flight

Minutes attributed to a Late Arriving Flight = Arrival time of previous flight + Scheduled turn time – Scheduled Departure time.

#### Examples:

- 1. A Flight was 40 minutes late and arrived @ 2:15. There was a scheduled 20- minute turn-time and the next flight was schedule to depart at 1:55. (2:15 + 20 minutes 1:55 = A 40 minute delay may be attributed to a late arriving aircraft.)
- 2. A flight was 60 minutes late and arrived @ 2:15. There was a scheduled 20-minute turn time and the next flight was scheduled to depart at 4:00. (2:15 + 20 minutes 4:00 = no allowable time for late arriving aircraft.

# X. Security Screening.

- 1. Long lines at the passenger screening area can cause carriers to delay flights, cause passenger inconvenience and anxiety, and create its own security risks. By the nature of the airline business, many screening areas have processing peaks and valleys, which generally result from a large number of flights being scheduled in a short period of time. While the Department is not mandating how air carriers schedule flights, it may be in the carriers' self-interest to review scheduling practices to alleviate delays both inside the airport and on the tarmac.
- 2. While TSA is in control of passenger screening, the air carriers are responsible for managing the lines up to the screening lanes. Carriers can alleviate the need hold flights for passengers in screening queues by bringing those passengers to the front of the line. Managing the line becomes more problematical when the carrier has multiple flights scheduled to depart at the same time or multi carriers use the same screening areas.
- 3. Lines at some screening points amass early in the morning, after there were long lines at the carriers' check-in-counter. The check-in lines quickly disperse when air carriers add service agents. These passengers gather at the screening queue. The problem could be lessened or avoided by air carriers rescheduling service-agents assignments to encourage a more even flow of passengers to the screening areas.

#### XI. Gate Returns including Canceled Flights

For consistency in the reporting of gate returns, carrier must report the last gate-departure time as the official gate-departure time (Field I), and carriers will report the first gate departure time in Field AC [First Gate Departure time (Actual)]. Two additional

fields (AD Total ground time away from gate and AE Longest ground time away from gate) will be reported. These fields will give consumers and the Federal Aviation Administration a more complete picture of tarmac delays. The clock for computing fields AD and AE will stop when the passengers are given the opportunity to deplane (most often when the main passenger door is opened.)

For flights which are canceled after the aircraft leaves the boarding gate but before departing the runway (wheels-off) carriers will continue to report a blank in Field I (,,) no spaces between the commas. However, carriers will populate Field AC, AD and AE.

For flights that are canceled after wheels-off time (fly returns), carriers will continue to report a blank in Field I (,,) no spaces between the commas. However, carriers will populate Fields T Wheels-off time (actual), AC [First Gate Departure time (Actual)], AD Total time away from gate, AE Longest ground time away from gate, AF Number of diverted landings (use a 9 as the designator for a fly return), AG (the airport code of the origin airport) AH the wheels-on time for the fly return, AI Total ground time away from gate (after fly return) and AJ Longest time away from gate (after fly return).

#### XII. Diversions

Carriers will now complete all relevant fields when a flight is diverted to an alternate airport with the exception of cause of delay. The exclusion of not reporting causal data for diversions remains in effect. When a diverted flight does not reach its scheduled destination, fields L Gate Arrival Time, P Actual Gate-to-Gate Time, R Arrival Delay Time, S Elapsed Time Difference and U Wheels-On Time will be blank (,,). However, these fields will be populated if a diverted flight reaches the scheduled destination. Carriers will also report the number of diverted landings in field AF Number of Landings at Diverted Airports; the three letter code of the Diverted Airport in field AG Three Letter Code of Diverted Airport; the wheels-on time in field AH Wheels-on Time at Diverted Airport; the appropriate minutes in field AI Total Time Away from Gate at Diverted Airport; and the wheels-off time at Diverted Airport, AK Wheels-off Time at Diverted Airport. When tracking the minutes to report in fields AI and AJ, the clock stops when passengers are given the opportunity to deplane the aircraft. In these occasions, the time recorded will be the instance the main passenger door is opened.

In order to retain the fixed file format, we have provided fields to capture the data elements for five diversions.

#### PROCEDURAL STATEMENT

Some carriers use ACARS to track flight times, other carriers have their pilots record the required times.

Carriers have the option of tracking all causes of delays from the moment the delay occurs or only those causes that persist for 6 minutes or longer. Whichever method the carrier elects to use, the carrier must consistently apply the method in its monthly report.

Carriers have the option of reporting multiple causes of departure delays or the predominant cause of departure delays with two exceptions: (1) Causal delay minutes assigned to late arriving aircraft can be equal to or less than but never more than the delay time of the previous flight operated with the same aircraft; and (2) Carriers cannot use minutes assigned to NAS (because arrival delay was greater than departure delay) to disguise another delay cause. For example, a carrier had an 8-minute weather delay at departure and the flight arrived 23 minutes late. The correct reporting would be 8 minutes for weather and 15 minutes for NAS. Whichever method the carrier elects to use, the carrier must consistently apply the method in its monthly report.

Before submitting the first causal report, carriers must submit a dated Procedural Statement for On-Time Reporting advising BTS whether it: (1) uses ACARS to track times; (2) tracks causes of delay beginning with the first minute of delay or only delay causes of 6 minutes or longer; and (3) reports all causes of delays or only the predominant cause of delay. Carrier must email the Procedural Statement to <a href="mailto:ontime.support@dot.gov">ontime.support@dot.gov</a>. If a carrier elects to change a reporting method, it must submit a revised Procedural Statement for On-Time Reporting before submitting its monthly 234 report.

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